AMENDMENTS IN THE CLAIMS

- 1. (currently amended) A system for periodically moving information units from a plurality of sources to an output destination based on information stored about each of the plurality of sources, the system comprising:
- a time-based calendar which handles some of the information units based on the information stored about the plurality of sources;
- a time-independent calendar which handles others of the information units based on information stored about the plurality of sources and which places each source into a calendar location and which moves the source to a different place in the calendar after servicing the source; and

a mechanism for determining when a flow is added to the source whether that source was at a location in the time-based calendar and preventing the source from being placed at a location ahead of a calculated location in the time-based calendar and placing the source at a second location that is the calculated location or a next location that is after the calculated location within the time-based calendar.

(previously presented) A method of servicing data flows placed into a queue for service in 2. turn comprising:

determining whether a queue had a previous position in a calendar;

if the queue had a previous position in the calendar, determining whether a new position which would be assigned to it is earlier than a previously calculated new position in the calendar;

if the new position which would be assigned is earlier than the previously calculated new position, using the previously calculated new position;

and, if the previously calculated new position is not earlier than the position which would be assigned, using the position which would be assigned.

- 3. (previously presented) A method including Claim 2 and further including considering the aging of the queue to determine whether stored parameters remain valid.
- 4. (canceled)

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- 5. (previously presented) The system of claim 1 wherein the plurality of sources include a plurality of queues.
- 6. (previously presented) The system of claim 1 or claim 5 wherein the calculated location includes the location whereat the queue would have been attached upstream from the location whereat said queue was last serviced.
- 7. (previously presented) The method of claim 2 wherein using includes attaching the queue to the selected location.
- 8. (previously presented) The method of claim 6 wherein the stored information includes time stamps.
- 9. (currently amended) A system comprising:

a time-based calendar which handles some of a plurality of information units based on the information stored about a plurality of sources; and

a mechanism for determining when a flow is added to a source whether that source was at a location in the time-based calendar and preventing the source from being placed at a location ahead of a predefined location in the time-based calendar and placing the source at a second location that is the calculated location or a next location that is after the calculated location within the time-based calendar.

10. (currently amended) A method comprising:

providing at least one time based calendar having a plurality of locations and a time pointer moving relative to the plurality of locations as a result of scheduler ticks;

attaching a queue to a first calendar location whereat the time pointer is pointing;

servicing said queue by causing a frame to be transmitted from said queue whereupon said queue goes empty;

identifying a second location whereat the queue would have been re-attached had it not gone empty;

examining pre-defined characteristics associated with said queue to determine occupancy frames within said queue;

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if examination indicates the queue is not empty, identifying a current location whereat the time pointer points;

correlating the current location of the time pointer and the second location; and selecting a location which is not earlier than the second location to re-attach the queue.

- 11. (previously presented) The method of claim 10 wherein the not emptied queue is attached to the selected location.
- 12. (previously presented) The method of claims 10 or 11 wherein the queue is attached by writing the i.d. (Identification number) of said queue in a stack located at each location.
- 13. (previously presented) The method of claim 12 wherein the stack is a Last In First Out-(LIFO) stack.